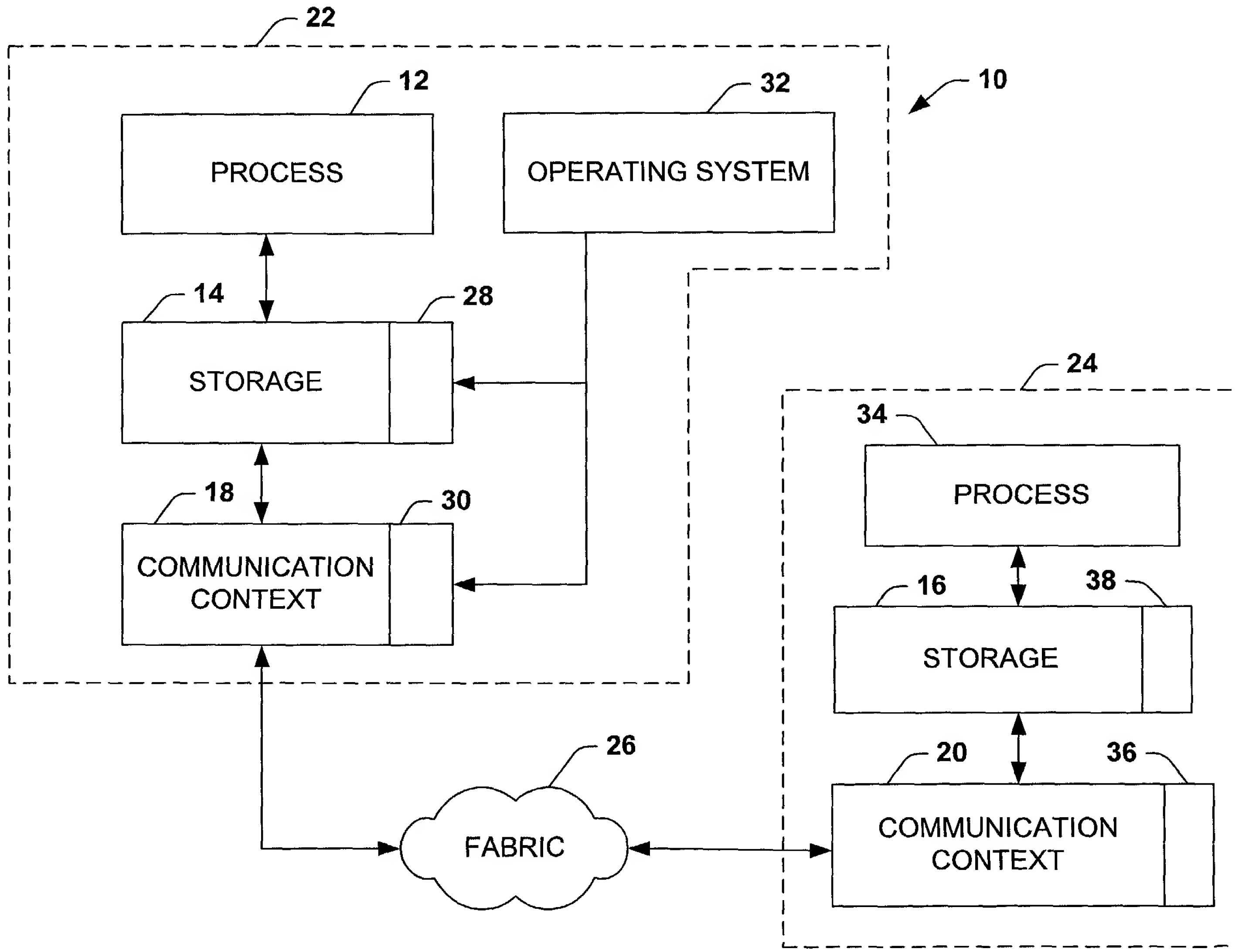
22
12
PROCESS
32
OPERATING SYSTEM
10
14
28
STORAGE
18
30
COMMUNICATION CONTEXT
24
34
PROCESS
16
38
STORAGE
20
36
COMMUNICATION CONTEXT
26
FABRIC

FIG. 1

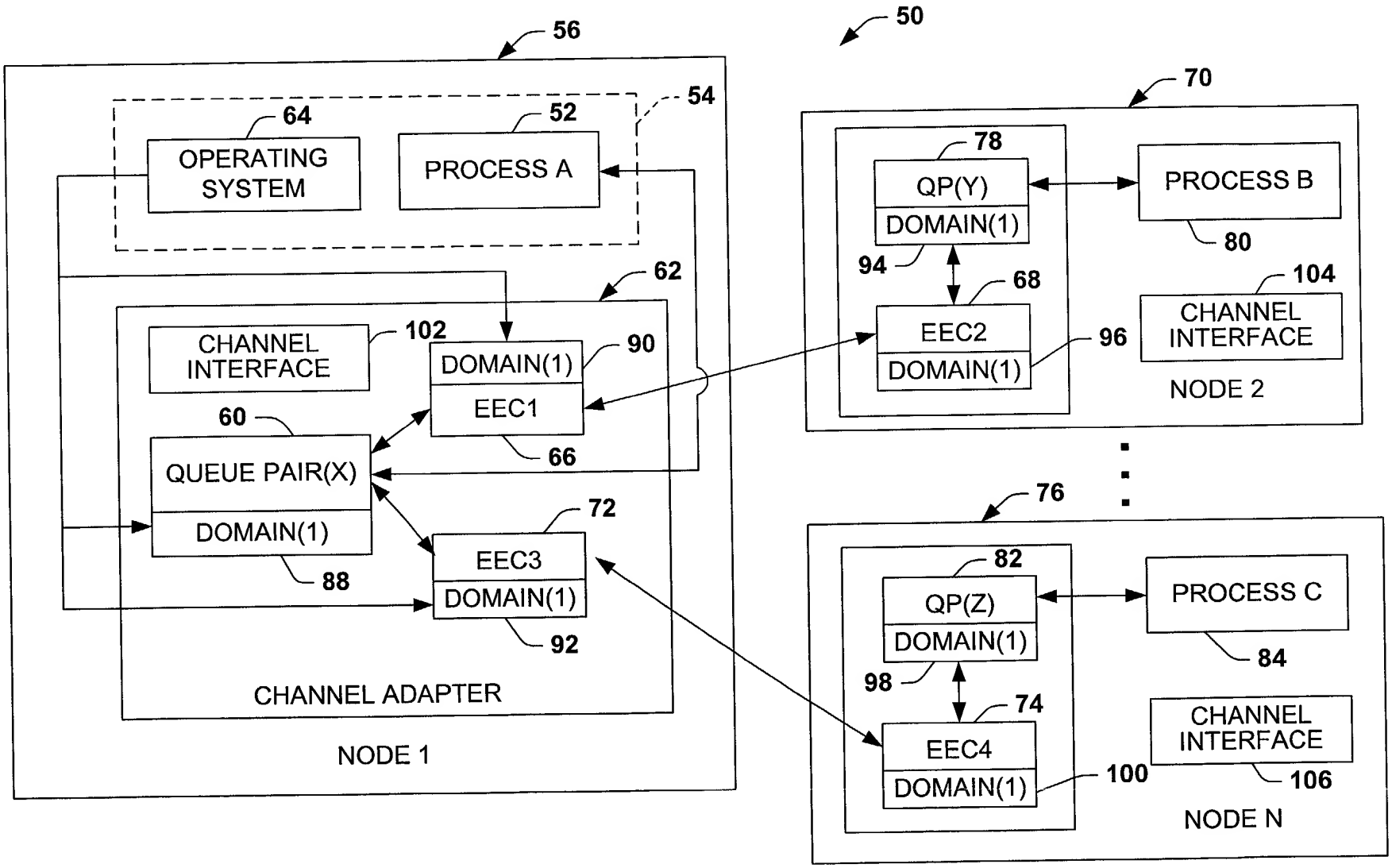
50
56
54
64
OPERATING SYSTEM
52
PROCESS A
62
CHANNEL INTERFACE
102
DOMAIN(1)
90
EEC1
60
QUEUE PAIR(X)
DOMAIN(1)
88
66
72
EEC3
DOMAIN(1)
92
CHANNEL ADAPTER
NODE 1
70
78
QP(Y)
DOMAIN(1)
94
PROCESS B
80
68
EEC2
DOMAIN(1)
96
104
CHANNEL INTERFACE
NODE 2
76
82
QP(Z)
DOMAIN(1)
98
PROCESS C
84
74
EEC4
DOMAIN(1)
100
CHANNEL INTERFACE
106
NODE N

FIG. 2

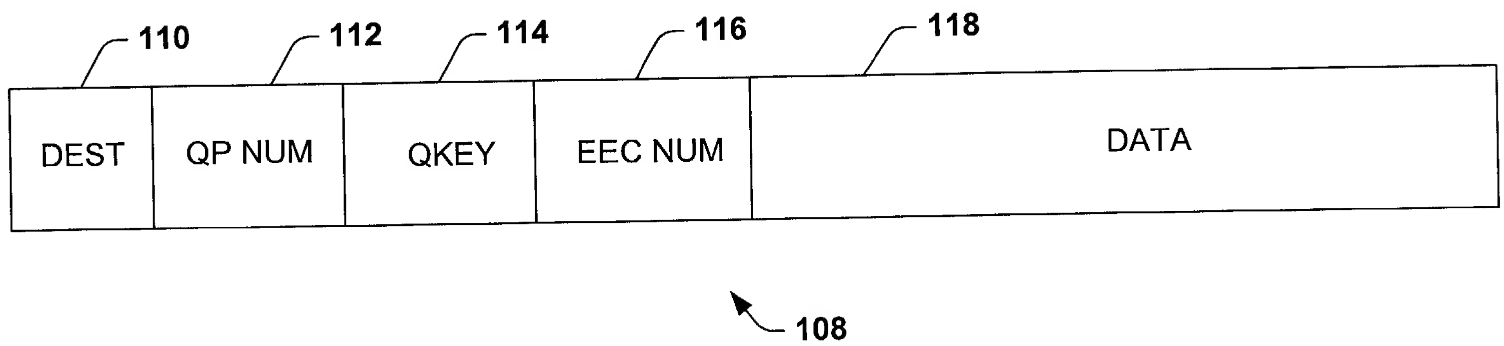

FIG. 3

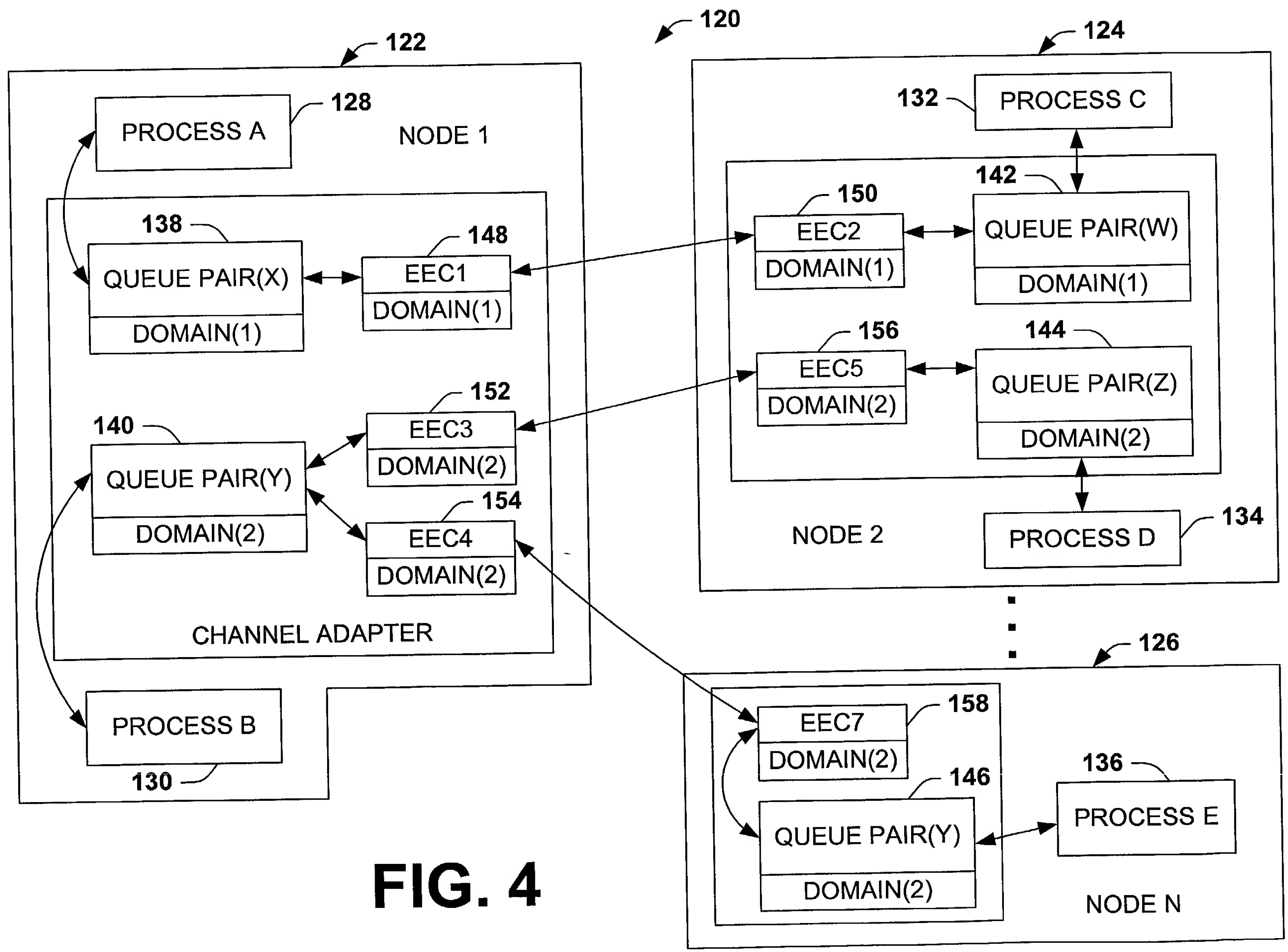
120
122
PROCESS A
128
NODE 1
138
QUEUE PAIR(X)
DOMAIN(1)
148
EEC1
DOMAIN(1)
140
QUEUE PAIR(Y)
DOMAIN(2)
152
EEC3
DOMAIN(2)
154
EEC4
DOMAIN(2)
CHANNEL ADAPTER
PROCESS B
130
124
132
PROCESS C
142
150
EEC2
DOMAIN(1)
QUEUE PAIR(W)
DOMAIN(1)
156
EEC5
DOMAIN(2)
144
QUEUE PAIR(Z)
DOMAIN(2)
NODE 2
PROCESS D
134
126
EEC7
DOMAIN(2)
158
146
QUEUE PAIR(Y)
DOMAIN(2)
136
PROCESS E
NODE N

FIG. 4

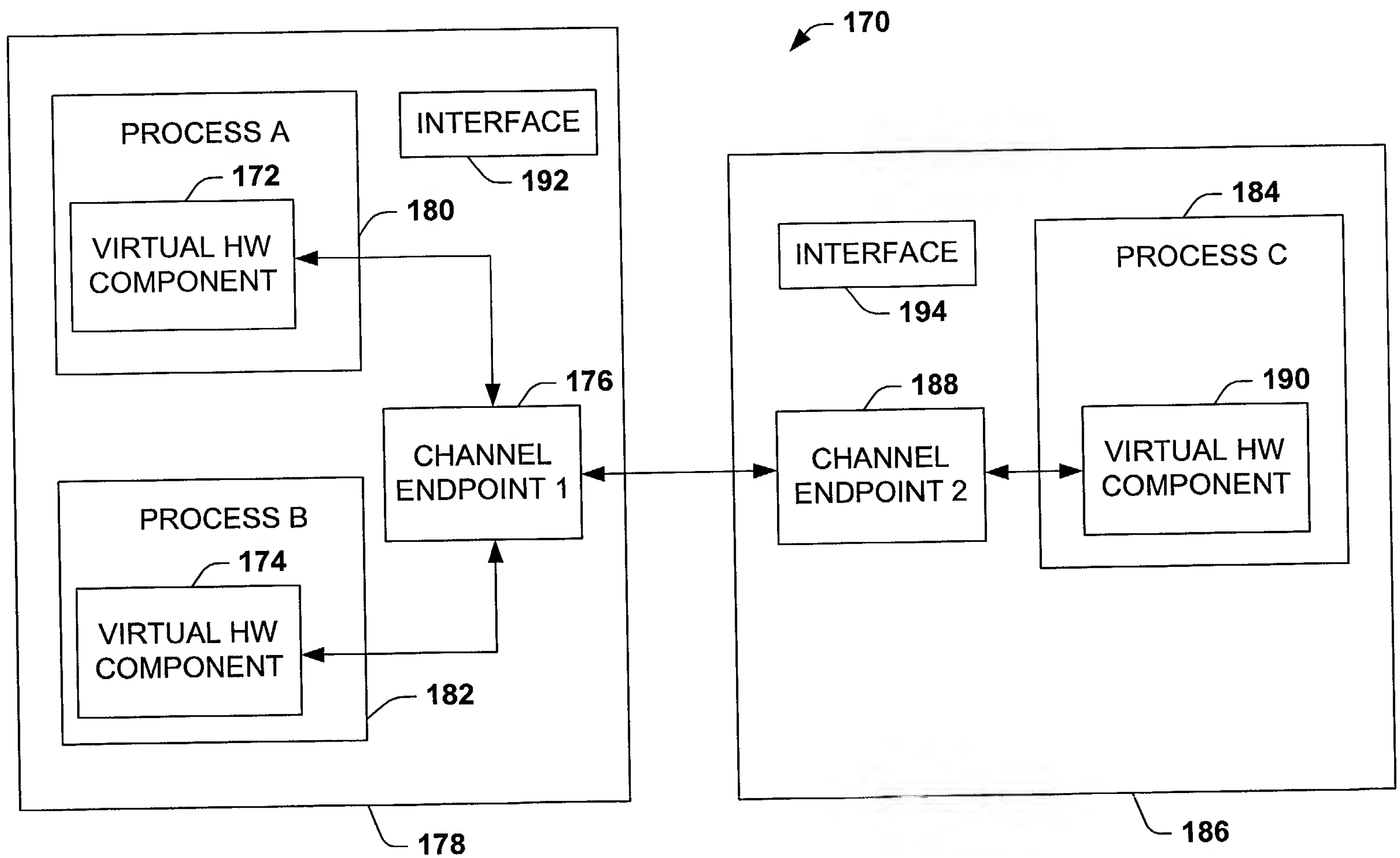
170
PROCESS A
172
VIRTUAL HW COMPONENT
INTERFACE
192
180
176
CHANNEL ENDPOINT 1
PROCESS B
174
VIRTUAL HW COMPONENT
182
178
184
INTERFACE
194
PROCESS C
188
CHANNEL ENDPOINT 2
190
VIRTUAL HW COMPONENT
186

FIG. 5

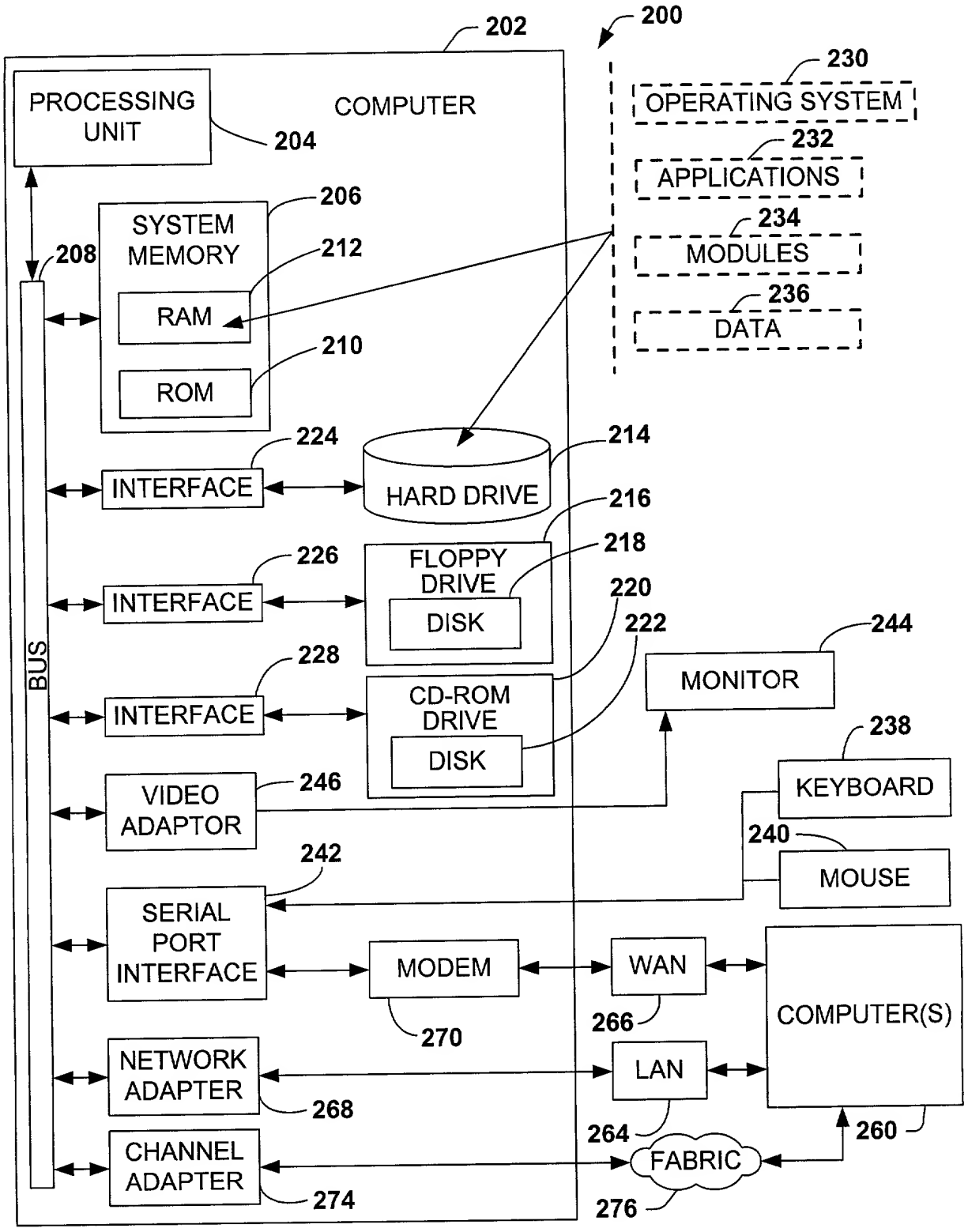
202
200
COMPUTER
PROCESSING UNIT
204
230
OPERATING SYSTEM
232
APPLICATIONS
234
MODULES
236
DATA
206
SYSTEM MEMORY
208
212
RAM
210
ROM
224
INTERFACE
214
HARD DRIVE
216
226
FLOPPY DRIVE
218
INTERFACE
DISK
220
222
228
CD-ROM DRIVE
INTERFACE
DISK
244
MONITOR
238
BUS
246
VIDEO ADAPTOR
KEYBOARD
240
242
MOUSE
SERIAL PORT INTERFACE
MODEM
WAN
COMPUTER(S)
266
270
NETWORK ADAPTER
LAN
268
264
260
CHANNEL ADAPTER
FABRIC
274
276

FIG. 6

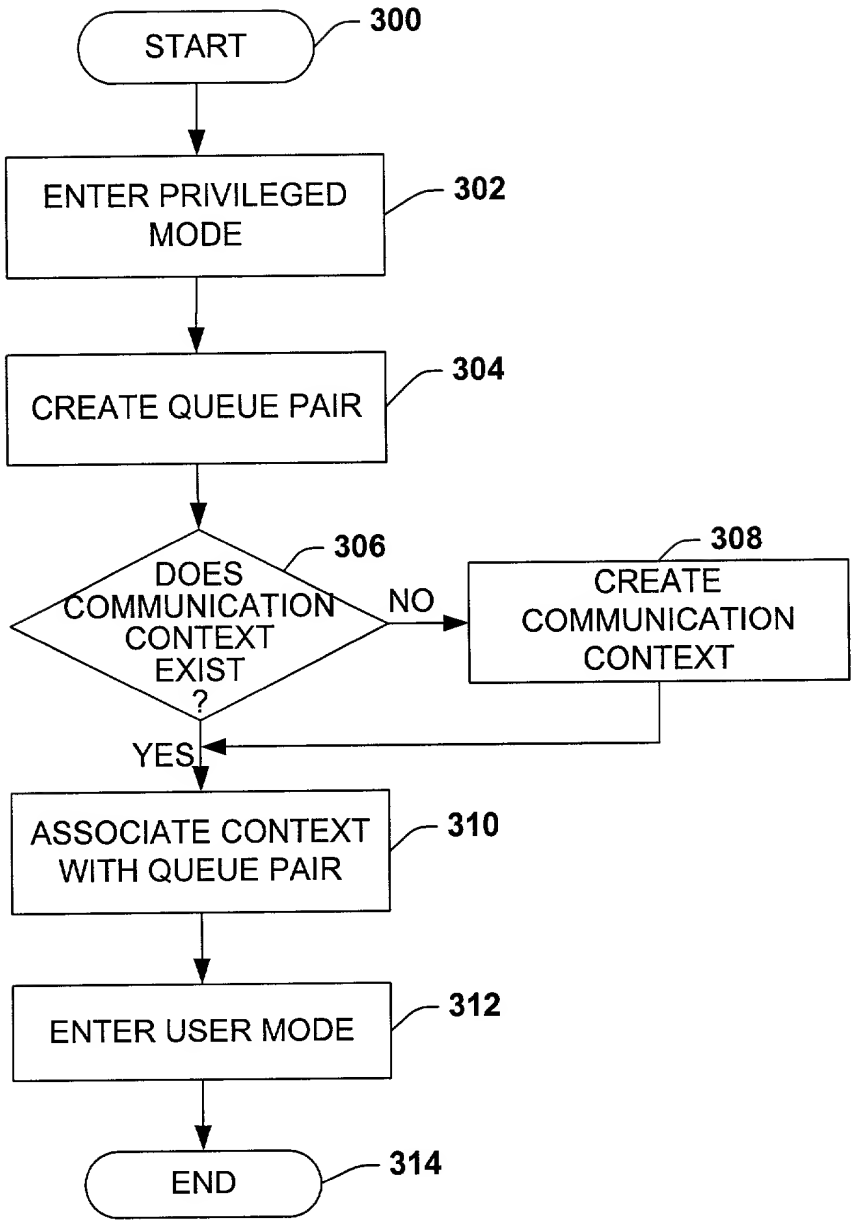
START
300
ENTER PRIVILEGED MODE
302
CREATE QUEUE PAIR
304
DOES COMMUNICATION CONTEXT EXIST ?
306
NO
CREATE COMMUNICATION CONTEXT
308
YES
ASSOCIATE CONTEXT WITH QUEUE PAIR
310
ENTER USER MODE
312
END
314

FIG. 7

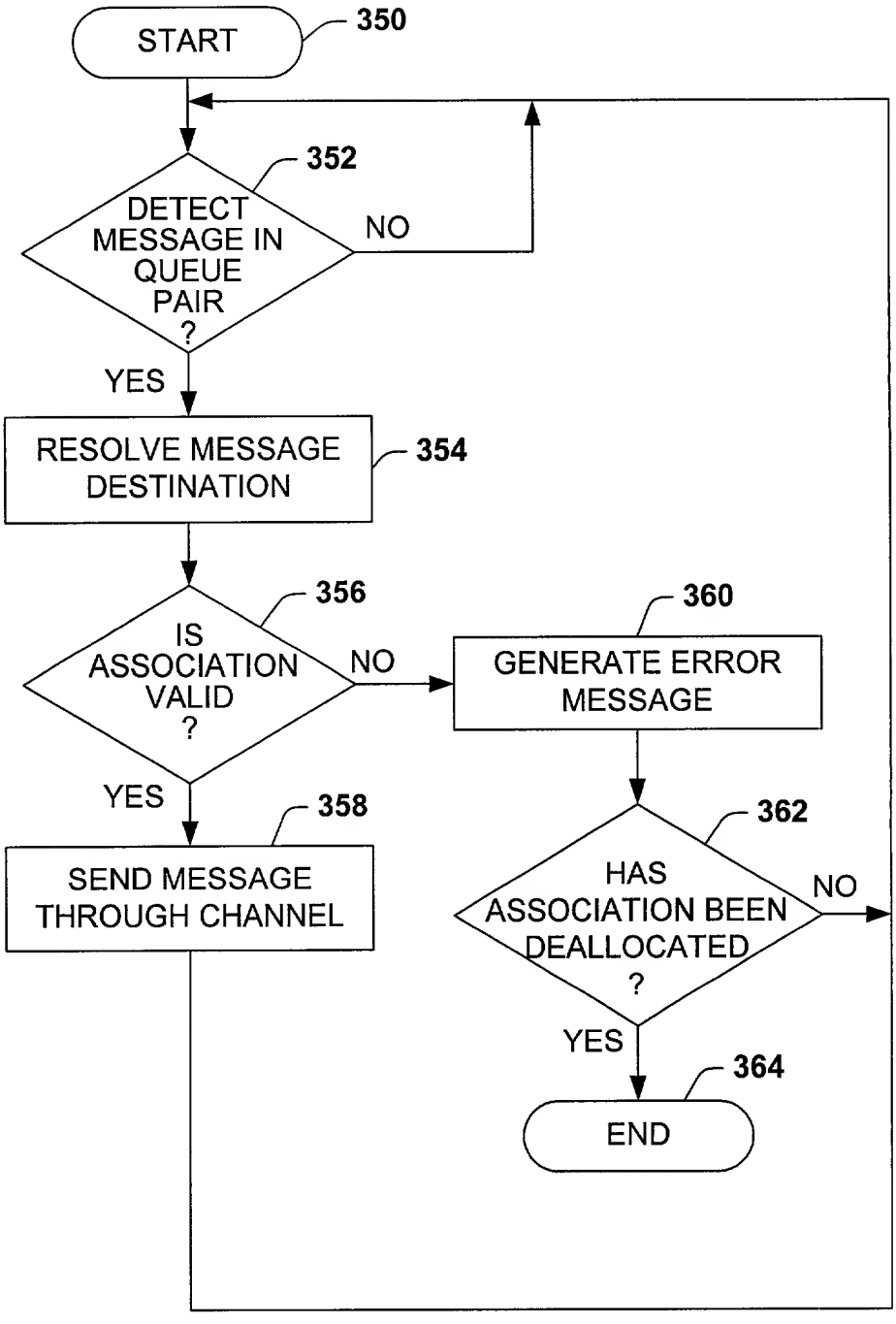
START
350
352
DETECT MESSAGE IN QUEUE PAIR ?
NO
YES
RESOLVE MESSAGE DESTINATION
354
356
IS ASSOCIATION VALID ?
NO
360
GENERATE ERROR MESSAGE
YES
358
SEND MESSAGE THROUGH CHANNEL
362
HAS ASSOCIATION BEEN DEALLOCATED ?
NO
YES
364
END

FIG. 8